

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001: 2008 Certified Company



Job No.: CQCE/BBMP/RM/W No.13/2017-18

Date: 10.07.2017

TEST REPORT

CLIENT	:	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	Sri. R. Mangalraj, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/W.O/128/2016-17 Dated:23.02.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office : # 39, 5th Cross, Javaregowdana Doddi, Rajarajeshwarinagar, Bangalore-560098
Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 8553518550/9886998316



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Job No.:

CQCE/BBMP/RM/W No.13/2017-18

Date : 10.07.2017

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. R. Mangalraj, Contractor, Bangalore.
Name of Work : Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/W.O/128/2016-17 Dated:23.02.2017
Date of Testing : 10.07.2017
Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	177	3.5	3.5	96.5	95-100
10	3264	65.3	68.8	31.2	25-55
4.75	1375	27.5	96.3	3.7	0-10

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Job No.: CQCE/BBMP/RM/W No.13/2017-18

24.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. R. Mangalraj, Contractor, Bangalore.
Name of the work : Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/W.O/128/2016-17 Dated:23.02.2017
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.07.2017	24.07.2017	8.155	326.4	14.51
2	17.07.2017	24.07.2017	8.163	335.2	14.90
3	17.07.2017	24.07.2017	8.172	352.6	15.67

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24.07.2017

Job No: CQCE/BBMP/RM/W No.13/2017-18

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. R. Mangalraj, Contractor, Bangalore.
Name of the work : Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/W.O/128/2016-17 Dated:23.02.2017
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.07.2017	24.07.2017	8.165	327.9	14.57
2	17.07.2017	24.07.2017	8.184	352.3	15.66
3	17.07.2017	24.07.2017	8.150	371.7	16.52

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CIVIL QUALITY CONSULTANTS & ENGINEERS

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26.07.2017

Job No.: CQCE/BBMP/RM/W No.13/2017-18

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

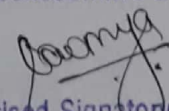
Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. R. Mangalraj, Contractor, Bangalore.
Name of the work : Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/W.O/128/2016-17 Dated:23.02.2017
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.07.2017	26.07.2017	8.164	325.6	14.47
2	19.07.2017	26.07.2017	8.177	340.8	15.15
3	19.07.2017	26.07.2017	8.182	366.1	16.27

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Job No.: CQCE/BBMP/RM/W No.13/2017-18

18.08.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. R. Mangalraj, Contractor, Bangalore.
Name of the work : Improvements to main & Cross Road at Selection Corner area & Santhosh Nagar (Balance Roads) in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/W.O/128/2016-17 Dated:23.02.2017
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.07.2017	18.08.2017	8.253	532.4	23.66
2	21.07.2017	18.08.2017	8.229	528.9	23.51
3	21.07.2017	18.08.2017	8.247	474.1	21.07

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